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AMENDMENTS TO THE CLAIMS

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Claims I-22 (Cancelled)

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- 23. (Amended) A method of transfecting antigen presenting cells, the steps comprising selecting a gene delivery complex that targets transfects antigen presenting cells, comprising DNA and one or more compounds selected from the group consisting of a sugars, or polyethylenimine, and or polyethylenimine derivatives, and administering the complex by applying the complex without the use of a needle to the skin or mucosa surfaces of an animal, wherein said DNA comprises a nucleic acid sequence encoding at least one immunogenic protein operatively linked to a promoter, and whereby antigen presenting cells of said skin or mucosa are transfected.
- 24. (Amended) The method of Claim 23, wherein the <u>complex comprises DNA and compound</u> is selected from the group consisting of glucose and <u>or a polyethylenimine derivatives.</u>
- 25. The method of Claim 24, wherein the polyethyleneimine derivative targets the mannose receptor found on the surface of antigen presenting cells.
- 26. The method of Claim 25, wherein the derivative is mannosylated polyetheylenimine.
- 27. (Cancelled).
- 28. The method of Claim 23, wherein the complex is electrostatically neutral.
- 29. (Cancelled)
- 30. (Amended) The method of Claim 2826, wherein the complex comprises a 5:1 ratio of mannosylated polyethylenimine derivative nitrogen per DNA phosphate.

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- 31. The method of Claim 23, wherein the gene delivery complex is formulated in added to a glucose solution.
- 32. The method of Claim 31, wherein the glucose solution is 5-10% glucose.
- 33. The method of Claim 32, wherein the glucose solution is 8% glucose.
- 34. (Cancelled)
- 35. The method of Claim 23, further comprising one or more steps selected from the group consisting of receptor stimulation, toxin activation, tissue injury and cell injury.
- 36. 39 (Cancelled)
- 40. The method of Claim 23, wherein the DNA is a plasmid.
- 41. The method of Claim 23, wherein the cells are Langerhans cells.
- 42. The method of Claim 29 44, wherein the complex comprises a 3:1 ratio of polyethylenimine nitrogen per DNA phosphate.
- 43. (Amended) The method of Claim 23 25, wherein the derivative is a sugar-modified polyethylenimine.
- 44. (New) The method of Claim 23, wherein the complex comprises DNA and polyethylenimine.